BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains in Amruthahalli and surroundings
Ward No - 07

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Amruthahalli								
	Bhadrappa Lt, Kashinagar								
	Rd-1		1	45.00	1.00	0.90	40.50		
	Rd-2		2	71.00	1.00	0.90	127.80		
	Rd-3		2	170.00	1.00	0.90	306.00		
	Rd-4		1	49.00	1.00	0.90	44.10		
	Rd-5 (150x2+1x28+110x2=548)	548/2	2	274.00	1.00	0.90	493.20		
	Rd-6		2	108.00	1.00	0.90	194.40		
	Cross Rd		1	45.00	1.00	0.90	40.50		
	Padma tent house, Amruthnagar								
	Rd-A		2	150.00	1.10	1.00	330.00		
	Rd-B		2	240.00	1.10	1.00	528.00		
	Rd-C		2	170.00	1.10	0.90	336.60		
	Cr-Rd A		2	70.00	1.10	1.00	154.00		
	Culvert		10	7.00	1.60	1.00	112.00		
							2707.10	215.28	**582784.49**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	3Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Amruthahalli								
	Bhadrappa Lt, Kashinagar								
	Rd-1		1	45.00	0.90	0.15	6.08		
	Rd-2		2	71.00	0.90	0.15	19.17		
	Rd-3		2	170.00	0.90	0.15	45.90		
	Rd-4		1	49.00	0.90	0.15	6.62		
	Rd-5 (150x2+1x28+110x2=548)	548/2	2	274.00	0.90	0.15	73.98		
	Rd-6		2	108.00	0.90	0.15	29.16		
	Cross Rd		1	45.00	0.90	0.15	6.08		
	Padma tent house, Amruthnagar								
	Rd-A		2	150.00	1.10	0.15	49.50		
	Rd-B		2	240.00	1.10	0.15	79.20		
	Rd-C		2	170.00	1.10	0.15	56.10		
	Cr-Rd A		2	70.00	1.10	0.15	23.10		
	Culvert		10	7.00	1.60	0.15	16.80		
							411.68	5421.90	**2232060.68**
	Basic Rate Rs.=	5115.00							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Amruthahalli								
	Bottom slab								
	Bhadrappa Lt, Kashinagar								
	Rd-1		1	45.00	0.75	0.15	5.06		
	Rd-2		2	71.00	0.75	0.15	15.98		
	Rd-3		2	170.00	0.75	0.15	38.25		
	Rd-4		1	49.00	0.75	0.15	5.51		
	Rd-5 (150x2+1x28+110x2=548)	548/2	2	274.00	0.75	0.15	61.65		
	Rd-6		2	108.00	0.75	0.15	24.30		
	Cross Rd		1	45.00	0.75	0.15	5.06		
	Padma tent house, Amruthnagar								
	Rd-A		2	150.00	0.90	0.15	40.50		
	Rd-B		2	240.00	0.90	0.15	64.80		
	Rd-C		2	170.00	0.90	0.15	45.90		
	Cr-Rd A		2	70.00	0.90	0.15	18.90		
	Side walls								
	Bhadrappa Lt, Kashinagar								
	Rd-1		2	45.00	0.15	0.50	6.75		
	Rd-2		4	71.00	0.15	0.50	21.30		
	Rd-3		4	170.00	0.15	0.50	51.00		
	Rd-4		2	49.00	0.15	0.50	7.35		
	Rd-5 (150x2+1x28+110x2=548)	548/2	4	274.00	0.15	0.50	82.20		
	Rd-6		4	108.00	0.15	0.50	32.40		
	Cross Rd		2	45.00	0.15	0.50	6.75		
	Padma tent house, Amruthnagar								
	Rd-A		4	150.00	0.15	0.60	54.00		
	Rd-B		4	240.00	0.15	0.60	86.40		
	Rd-C		4	170.00	0.15	0.60	61.20		
	Cr-Rd A		4	70.00	0.15	0.60	25.20		
							760.46		
	Culvert Raft		10	7.00	1.50	0.20	21.00		
	Culvert Wall		20	7.00	0.23	0.60	19.32		
							40.32		
					Net Qty.		**800.78**	7070.20	**5661692.43**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60kg / cum	Tonne		760.46	0.060	--	45.63		

	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Considering steel For culvert @ 100kg / cum	Tonne		40.32	0.100	--	4.03		
							49.66	73992.24	**3674436.14**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Amruthahalli								
	Bhadrappa Lt, Kashinagar								
	Rd-1		1	45.00	0.75	--	33.75		
	Rd-2		2	71.00	0.75	--	106.50		
	Rd-3		2	170.00	0.75	--	255.00		
	Rd-4		1	49.00	0.75	--	36.75		
	Rd-5 (150x2+1x28+110x2=548)	548/2	2	274.00	0.75	--	411.00		
	Rd-6		2	108.00	0.75	--	162.00		
	Cross Rd		1	45.00	0.75	--	33.75		
	Padma tent house, Amruthnagar								
	Rd-A		2	150.00	0.90	--	270.00		
	Rd-B		2	240.00	0.90	--	432.00		
	Rd-C		2	170.00	0.90	--	306.00		
	Cr-Rd A		2	70.00	0.90	--	126.00		
							2172.75		
	Deduct 30% slabs for BS Slab						651.83		
							1520.93	2337.00	**3554401.73**
	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19								
	For Drain	Sqm							
	Amruthahalli								
	30% slabs for BS Slab						651.83		
							651.83	966.72	**630132.26**
	Basic Rate Rs.=	912.00							
	Add 6% A.W Rs. =	54.72							
	Total Rate Rs. =	**966.72**							
	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.26, I.No.5.17 of PW,P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Amruthahalli								
	30% slabs for BS Slab						651.83		
							651.83	950.82	**619768.25**
	Basic Rate Rs.=	897.00							
	Add 6% A.W Rs. =	53.82							
	Total Rate Rs. =	**950.82**							
	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	10	7.00	1.50	--	**105.00**	5418.00	**568890.00**
								Sub Total 1 Rs.	**17524165.98**
	Add GST @ 12%								**2102899.92**
	DPR & PMC Charges including GST								**372500.00**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
								Sub Total 2 Rs.	19999565.90
	Miscellaneous & Rounding off								434.10
								Total Rs.	20000000.00

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Project Division Yelahanka	Project Division Yelahanka	Project Division Yelahanka
BBMP	BBMP	BBMP

25/11/19

28/11/19

Administrative Approval

Accorded For Rs. 200.00 lakhs Only
Head of A/C P-0190
CER NO :28 Dt: 05/09/2020

A.E. (Project)

Technical Sanction

Accorded For Rs. 200.00 lakhs
Head of A/C P-0190
CER NO 258/11/11/2019

TA - CE (YNK)